Facilities Quarterly

ERNEST ORLANDO LAWRENCE BERKELEY NATIONAL LABORATORY FACILITIES DEPARTMENT NEWSLETTER

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LABOR, GROUNDS CREWS PREPARE FOR STORMS

With El Nino fast becoming a household word, anything less than record storms this winter might seem like an anticlimax. This would be fine with Grounds Supervisor Bob Berninzoni, who doesn't need a repeat of last winter's mud slides and fallen trees. "We got hit pretty hard," he says.

But if being prepared means anything, this year—and future years—will be different. With technical support from Civil's Steve Blair and Fred Angliss, and Rich McClure of Planning, Berninzoni's Labor and Grounds crews began work during the summer on improvements to Berkeley Lab's storm runoff system, finishing up in November.

Drainage channels converge at entrance to underground drainage system near Building 84.

The results can be seen all around the Lab. Areas where erosion is a problem, such as steep, bare slopes, were covered with jute netting and planted with grass and trees. Below Building 88 Facilities excavated an area where three trees came down last winter and filled it with over 100 tons of rock. Rock was also placed on the hillside above McMillan Road between buildings 71 and 76.

Says Blair, "Our major concerns in preparing for the heavy rains are control of runoff, dissipation of energy, removal of debris, and removal of silt." Large rocks are used to impede the flow of runoff, dissipating some of its energy as turbulence. Blair has used this strategy extensively in designing improvements for the East Canyon area storm system, which receives large volumes of runoff—potentially amounting to a small river—from the neighboring Strawberry Canyon watershed.

Drainage channels, such as the large chute just east of the new Genome Sciences Laboratory, have been given a new coat of concrete studded with chunks of stone. High on the slopes overlooking East Canyon, which are largely bare following last year's removal of nonviable trees, water berms consisting of logs or earth mounds are in place to divert water to a horizontal course, reducing erosion.

To prevent clogging of the underground storm system, large and small trash grates, consisting of closely-spaced steel posts, have been installed upstream in the drainage channels to remove logs, brush, and other debris as the runoff passes through. Over 100 straw bales have been placed around the storm sewer gratings themselves, to filter out silt, preventing it from continuing down to the Bay. The bales also create temporary retention ponds that help dampen sudden surges of runoff. Finally, over 400 sandbags are in place on hillsides, and an equal number are at the ready.

Also ready are Labor and Grounds crews, who are on call 24 hours a day. During storms they monitor drains and drainage channels to make sure rain water is flowing properly. After the rain, they clean up the debris that Mother Nature and her unruly offspring El Nino have left behind.

INSIDE

MAXIMO IMPLEMENTED AT WORK REQUEST CENTER

On November 24, Facilities MIS reached a major milestone, with implementation of its Maximo work flow management system in the Work Request Center.

Maximo's client-server architecture consists of a central Oracle database accessed from PC-based user modules. Each module addresses a specific business process, such as inventory, work orders (implemented at the Work Request Center), preventive maintenance, equipment tracking, purchasing, estimating, labor resource management, and scheduling.

The objective of Maximo, explains Facilities MIS Group Leader John Pon, is to "consolidate existing fragmented systems into an integrated repository and processing system." Maximo integrates many data storage and processing functions that have previously been handled by separate databases. For example, if the price of pipe has been changed using the Inventory module, this information will be automatically factored into a job order to replace a section of pipe (prepared in the Work Order module).

The Work Request Center will use Maximo to log calls, initiate job orders, and send fax confirmations via modem to the customer. Maximo will also give crafts online access to current information on job orders.

Data from Facilities database systems that track equipment, preventive maintenance schedules, and inventory have already been rolled into Maximo. In addition, Maximo is updated actively from Lab data sources that include the Accounting (FMS), Human Resources (HRIS), and building usage (Space) databases.

Although Maximo was installed on over 50 PCs, software installation, according to Pon, was relatively easy because Maximo is an "off-the-shelf" product. Getting this existing data into Maximo and mapping it to the right fields, was a greater challenge but the most difficult task has been changing existing ways of doing business. "Getting people to change, and making sure you don't make any mistakes along the way is a constant challenge," says Pon.

Pon credits effective training with making the Work Request Center implementation go smoothly. Frank Yee, who was project lead for the implementation, worked with Amy Lowe to develop training materials and conduct 14 four-hour training sessions for more than 50 users—all in the space of three weeks. "They did a tremendous amount of work, " says Pon—work that will soon yield big dividends in saved time and resources for Facilities.

FROM THE FACILITIES MANAGER...

This past quarter has seen many changes. Three project managers have left the Lab; Sheree Siemiatkoski returned to Livermore, John Pickrell retired, and Pablo Orozco is going on to bigger and better things. George Towns is retiring after getting Stores onto Maximo, and Fred Lothrop also decided that, after 42 years at the Lab, he would take some time for himself. Jerry Young and Chris Caras have plans to retire in the next month or two. On the brighter side, we welcome Bill Llewellyn, who will take over from Fred and also manage Stores. Lonnie Simonian arrived in Project Management just before the shutdown, and Paul Coviello is on his way to being the new Space Czar at the Lab.

Recent major events include dedication of Building 84 by Secretary Pena and funding of the Blackberry Substation. We reorganized a little to smooth out the administrative group and accepted responsibility for scheduling the auditoriums and larger conference rooms through the Work Request Center. Maximo was installed in the Work Request Center to handle job orders. Behavior Based Accident Prevention continued to show results in reducing accidents as we expanded it into other areas of the Department. Congratulations are due the coaches and the steering committee.

The first allotment of the FY 1998 Outstanding Performance Awards was presented. Wayne Cox received recognition for his work on the SQUID Lab; and the riggers, Kevin Trigales, Francis Asturias, and Ronald Silva, received a team award for their work with the STAR Time Projection Chamber.

Sadly, we must also report that Oliver Wiggins passed away on December 11. Oliver was responsible for the outstanding reputation earned by the rigging crew and will be missed.

On behalf of all us in Facilities, I wish you . . . A Happy New Year!

Work SMART — Work SAFELY — If it is not safe, STOP the work.

Bob Camper

FACILITIES DEPARTMENT

Facilities provides Berkeley Lab with a full range of architectural and engineering, construction, and maintenance services for new facilities and for modification and support of existing facilities.

Architectural and engineering services include facility planning, programming, design, engineering, project management, and construction management. Maintenance and construction functions include custodial, gardening, and lighting services; operation, service, and repair or replacement of equipment and utility systems; and construction of modifications, alterations, and additions to buildings, equipment, facilities, and utilities. Additional services include bus and fleet management, mail distribution, stores distribution, and property disposal.

Ongoing Facilities activities include renewal and upgrade of site utility systems and building equipment; preparation of environmental planning studies; in-house energy management; space planning; and assurance of Laboratory compliance with appropriate facilities-related regulations and with University and DOE policies and procedures.

The Work Request Center expedites facility-related work requests, answers questions, and provides support for facility-related needs.

FOCUS ON SERVICE: *SHUTTLE BUSES*

Whether they're going to a meeting at the opposite end of the Lab or to the Rockridge BART station at the end of the day, shuttle bus riders can always expect timely service, delivered with a smile. Berkeley Lab's shuttle bus drivers spend their entire shifts (four or eight hours) behind the wheel, negotiating city streets and the Lab's tortuous thoroughfares. So why are they always so nice? Because, says Supervisor Tammy Brown, "They're a great group of people."

"The drivers are service-oriented and strive to be courteous," she continues, "and they're more than happy to answer questions." In contrast to most transit systems, The Shuttle Service encourages passengers to ask the drivers questions. "They're a wealth of information," says Brown.

Scheduled service includes the Onsite Shuttle, the Offsite Shuttle to downtown Berkeley and Berkeley BART, the Strawberry Run, and the Rockridge Express. The Onsite Shuttle runs at 10-minute intervals from 6:40 am to 5:10 pm, and 20-minute intervals from 5:10 pm to 6:30 pm. The Offsite Shuttle also runs every 10 minutes, making stops along Bancroft Way from 6:30 am to 4:00 pm. From 4:00 to 7:00, it runs at 20 minute intervals, following a more direct route down Hearst Avenue to Berkeley BART.

The Strawberry Run connects Building 66 and the Hearst Mining Circle on the UC Berkeley Campus. The Rockridge Express connects with the Rockridge BART during the morning and evening commute. Bus schedules are available on the buses, at bus enclosures, and on the Web at http://www.lbl.gov/Workplace/Transportation.html.

The Lab's 13 buses are available, on a recharge basis, for site tours, conferences, and shuttling large groups to and from the Oakland

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COMPLIMENTS

Human Resources Department Administrator Sally Williams writes to Move Coordinator Ron Woods, "You did a wonderful job moving all my things in a very orderly fashion. Even though things are in boxes I can find them easily and can readily go to work at my phone and computer unencumbered by clutter! Your help is truly appreciated. You helped to make my move a very smooth one."

Life Sciences Division Director Mina Bissell sends her appreciation to Construction Coordinator Don Beaton for his contribution to the successful dedication of the Genome Sciences Laboratory: "The event proceeded very smoothly, thanks to efforts such as yours to anticipate and prepare for any and every eventuality. The building was in beautiful shape, the ceremony was well conceived and executed, and the rain even held off for the event! Thank you for helping to make this event a resounding success."

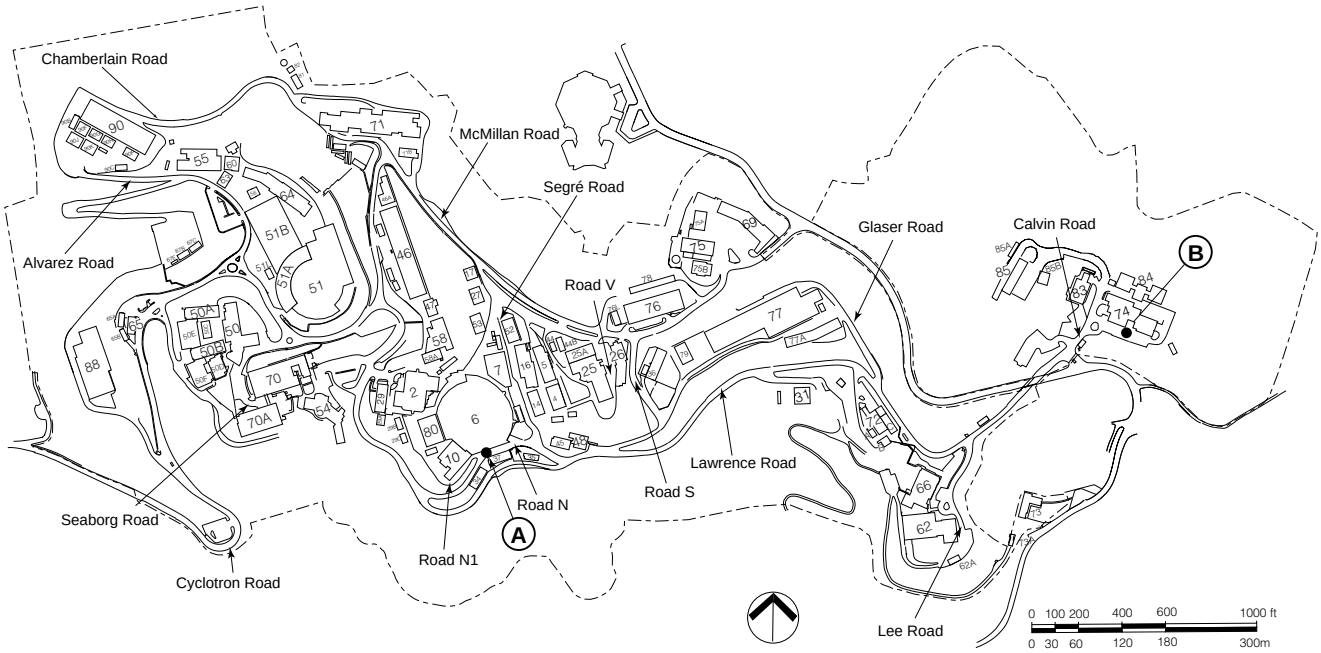
WORK REQUEST CENTER

Telephone	6274
Fax	7805
Quickmail	Facility
E- or VAX-Mail	Facilities@lbl.gov
cc:Mail	LBL Facilities
Mailstop	76-222

WRC welcomes questions or comments about the Facilities Quarterly.

CONSTRUCTION AND YOU

Current construction projects affecting parking or vehicular or pedestrian circulation



Project Contacts. The name in parentheses after each project is the Project Manager (PM) or other person who is responsible for project oversight: coordinating all phases from design through construction; controlling cost, scope and schedule; and ensuring client satisfaction. This person will be happy to answer any questions about the project.

Bldg 6 Second Floor Conversion

(A)

JAN	FEB	MAR

Construction activities will continue through the winter. Parking spaces on the south side of Bldg 6 will be reserved for the contractor. (Richard Stanton, x6221)

Bldg 84 Human Genome Laboratory

JAN	FEB	MAR

(B)

Construction activities in this area may continue to impact local parking through the winter. (Richard Stanton, x6221)

"CAUTION—CONSTRUCTION AREA"

Construction barricades and warnings are there for your protection. Under no circumstances should you cross a construction barricade, or disobey posted warnings or directions. Please contact the Project Manager for escorted access to construction areas.

ON THE DRAWING BOARD

projects in study or conceptual design

Sitewide Water Distribution Upgrade, Phase 1

A conceptual design report is being prepared for upgrades to Berkeley Lab's 9.6 km (6 miles) of high-pressure water supply piping. The project will replace all cast iron pipe, install corrosion protection for other piping, and provide other enhancements that will make the system more robust and extend its life substantially. The project will also install a new emergency fire water tank to protect the East Canyon area.
(Charles Allen, x6439)

Bldg 74 Rehabilitation of Building Systems

A conceptual design report has been prepared for the rehabilitation of Building 74 mechanical and electrical systems, seismic upgrade of the structure, and code upgrade of architectural features. As part of the project, the Building 84 utility center would be expanded to accommodate Building 74 utilities, including relocated mechanical equipment and new electrical switchgear. If this project is funded, project design will begin in FY 1999. (Richad Stanton, x6221)

Bldg 77 Rehabilitation Project

Conceptual design is complete for this project, which will rehabilitate Building 77's structural system to restore lateral force resistance and arrest differential foundation settlement. In addition, the project will modernize the building's architectural, mechanical, and electrical systems. (Lonnie Simonian, x6088)

IN PROGRESS

funded projects

Blackberry Canyon Switching Station Replacement

This project is the last in a series of projects to rehabilitate the hill-wide electrical distribution system. Currently in the design stage, it will replace obsolete and underrated 12kV and 480V distribution cables, install new electrical duct banks, eliminate the obsolete Big "C" Switching Station, and install the new Blackberry Canyon Switching Station behind Building 64. Work on the duct bank installation is expected to begin in June 1998, with the remainder of the equipment installation to begin in early FY 99. More on the projected impacts of this project will appear in the next issue of Facilities Quarterly. (Charles Taberski, x6076)

JGI Production Sequencing Facility

Located in existing buildings in Walnut Creek, California, this 5,800 square-meter (62,600 SF) facility will house the automated DNA sequencing operations of the Joint Genome Institute (JGI). Tenant improvement design will be completed for Building 100 in mid-January and started for Building 400 by the end of the month. The landlord has begun construction of Building 100 tenant improvements, and most outfitting work for Building 100 will begin in March. Phased occupancy will begin in June and be completed in October 1998.
(Kirk Haley, x5973)

Bldg 2 Lithography Laboratory Conversion

This project will provide 25 square meters of class 100 clean room space in the first-floor lithography laboratory in Building 2. The project includes lab utilities, ventilation, modifications to support spaces and building systems, a make-up air handling unit, and additional chilled water lines for clean room temperature and humidity control. Construction is tentatively scheduled to begin in January 1998. (Lonnie Simonian, x6088)

Bldg 6 Second Floor Conversion

Construction is underway for conversion of additional space on the second floor of the ALS for offices, laboratories, and a conference room. The work includes an elevator at the main entrance. (Richard Stanton, x6221)

Bldg 34 Chilled Water Plant

Construction for this project will start in January 1998. This project will install an additional cooling tower and chiller serving the ALS. The original construction of this building provided space for this expansion. Construction is expected to be completed in April 1998.
(Lonnie Simonian, x6088)

SHUTTLE

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Airport and local hotels. Extra buses are put in service for special occasions, such as the recent commissioning of the Genome Sciences Laboratory.

At this time of year, the drivers must contend with what Brown terms "abnormal driving conditions—wet, slick, foggy, deer, all of the above," and a little effort by the passengers can make their jobs easier. "Drivers like it when people signal at stops," says Brown, "especially in bad weather when people are bundled up. If you're part of a group, have one in the group wave, 'Hey, we want on!'"

Bicyclists should always alert the driver prior to loading a bicycle. If you are the last to remove your bicycle from one of thefr ont bike racks, fold the rack closed.

Passengers with special needs such as wheelchair accessibility can set up a schedule with Brown, so that a properly equipped bus will arrive when needed. Thanks to major upgrades, most of the buses are now wheelchair-accessible.

Although passengers are generally quite well behaved, there are a few "don'ts" when riding the buses. Hazardous materials are not allowed on buses; call Transportation at x5404 for assistance. Eating, drinking, and smoking are not permitted.

Tammy has been at the Lab for 20 years, and receives much of her customer input firsthand while walking around the Labsite. She is also reachable by phone at x4165 or by email at tabrown@lbl.gov. "We are committed to maintaining the highest possible level of service," says Brown. "To obtain that level we rely on customer comments."

DEPARTURES AND ARRIVALS

Chris Caras

After 37 years at LBNL, Facilities Inventory Manager Chris Caras will be retiring this February.

Chris joined Berkeley Lab directly out of the Air Force in 1961 as a storekeeper, filling liquid nitrogen containers around the Lab. His job evolved over the years to that of electronic stores specialist and then inventory specialist.

Chris plans to be busier than ever after his retirement. When he completes all the "honey-do" projects around his house in Martinez, Chris and his fiancee, Carol, plan to travel. They own two horses, which they hope to bring along on some of these trips. "We went riding last year on the trails above Yosemite Valley, and we try to get out to Point Reyes and ride them as much as we can." Without the horses, they also plan on touring abroad.

Paul Coviello

Paul Coviello has joined Facilities Planning. Paul is at present involved primarily in space planning, but he will be doing project planning as well.

Away from work, Paul's interests lean toward basketball ("but the body's breaking down"), traveling, and most remarkably—as a member of the New York Times Crossword Puzzle Society—doing crossword puzzles in pen.

Bill Llewellyn

Bill Llewellyn joins Berkeley Lab as the new Manager of Facilities Support Services. He's the person who makes sure that shuttle bus services, fleet operations, mail services, and shipping and receiving all work smoothly. Bill comes to us from Bio Rad Laboratories in Hercules.

Away from work, Bill likes to fish, golf (with a high-20's handicap) and spend time with his two grandchildren.

George Towns

George Towns retired from the Lab in December. George started at the Lab in 1960 as a radiation safety technician in the Health Chemistry Department (now the EH&S Division), eventually moving to the administration of the Lab's radioactive sources.

In 1978, George accepted the position of Division Administrator of the newly formed National Resource for Computation in Chemistry (NRCC). He remained in NRCC until it was closed in 1981.

Since then he has been an administrator in the Facilities Department, most recently as manager of the Material Services Group.

George plans to keep busy by gardening, trout fishing, sailing, and expanding his collection of old toy trains.

Jerry Young

Jerry Young, a Field Buyer for the Facilities Department, will be retiring at the end of January after 20 years at the Lab.

Jerry says the part of the job he'll miss most is "...helping people, especially when they're in a bind. The quality of the people at the Lab, the great work they do, you really want to come through for them."

Accomplished as a woodworker, Jerry has populated his house in Hercules with antique furniture he has restored. He also likes creating wooden sculptures, often to the delight of his five grandchildren. Recently he was given a chest of drawers from Facilities Department colleague Lee Purbaugh and stripped off four layers of paint to the original wood finish. According to Lee, "He then made it something special. My wife wants it back now!"

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